



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P43-840-A-POE ALL ON_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 19-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-P43-840-A-PoE ALL ON
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [_SEARCH_SOURCE TYPE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7870
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	63.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7712	7706	7992
55	6402	6898	7151
65	4990	5740	4732
75	3709	3696	2747
85	2383	1819	1468

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3430.236	3430.236	3430.236	3430.236	3430.236
2.5	3428.115	3421.753	3418.816	3426.321	3430.399
5.0	3418.653	3410.496	3404.297	3406.254	3410.170
7.5	3397.934	3386.025	3377.541	3375.257	3370.852
10.0	3365.469	3351.765	3335.777	3329.740	3324.683
12.5	3321.420	3307.064	3286.018	3272.641	3262.036
15.0	3263.668	3248.332	3222.393	3203.631	3190.417
17.5	3194.658	3175.408	3146.694	3125.486	3110.314
20.0	3112.924	3092.368	3059.739	3036.736	3019.280
22.5	3019.933	2996.930	2963.322	2940.808	2924.331
25.0	2918.947	2892.029	2855.322	2835.745	2821.062
27.5	2811.110	2780.766	2743.895	2729.702	2718.935
30.0	2698.705	2667.055	2631.653	2621.049	2614.197
32.5	2579.121	2547.145	2514.843	2511.417	2506.849
35.0	2450.076	2420.384	2392.976	2399.664	2399.012
37.5	2312.383	2286.280	2265.724	2279.592	2284.323
40.0	2169.797	2146.793	2133.742	2157.071	2167.513
42.5	2019.053	2001.923	1998.660	2033.083	2052.171
45.0	1863.578	1852.321	1862.110	1908.442	1931.282
47.5	1708.592	1707.450	1726.212	1784.943	1810.883
50.0	1553.770	1564.048	1597.003	1664.054	1680.858
52.5	1402.537	1423.256	1472.851	1537.619	1546.592
55.0	1254.893	1286.379	1351.963	1399.763	1401.558
57.5	1112.469	1152.113	1231.237	1249.509	1209.539
60.0	974.288	1021.762	1104.475	1063.527	1027.472
62.5	842.305	896.958	974.614	900.221	849.484
65.0	720.601	781.453	828.928	740.015	683.404
67.5	607.869	671.984	684.383	587.313	539.186
70.0	505.905	570.673	555.337	457.941	417.971
72.5	412.098	472.135	433.959	348.799	319.270
75.0	328.080	374.086	326.938	262.496	242.919
77.5	251.403	280.768	236.067	194.466	182.720
80.0	183.535	198.871	163.143	139.487	132.961
82.5	123.499	125.946	103.269	91.034	85.650
85.0	70.967	65.583	54.163	47.638	43.722
87.5	24.961	20.719	18.925	19.251	19.088
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.163	0.000	0.163
152.5	0.000	0.000	0.163	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.326	0.163	0.000	0.653	0.163
160.0	0.163	0.000	0.489	0.326	0.163
162.5	0.653	0.163	0.163	0.163	0.489
165.0	0.163	0.163	0.489	0.326	0.653
167.5	0.653	0.163	0.326	0.326	0.163
170.0	0.163	0.163	0.489	0.326	0.326
172.5	0.000	0.163	0.653	0.816	0.000
175.0	0.489	0.000	0.326	0.489	0.653
177.5	0.489	0.326	0.489	0.489	0.163
180.0	0.489	0.489	0.489	0.489	0.489

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Zone	Lumens	%Lamp	%Fixt
0-20	1231.04	N.A.	15.60
0-30	2549.15	N.A.	32.40
0-40	4053.75	N.A.	51.50
0-60	6698.88	N.A.	85.10
0-80	7798.09	N.A.	99.10
0-90	7870.17	N.A.	100.00
10-90	7546.96	N.A.	95.90
20-40	2822.71	N.A.	35.90
20-50	4273.52	N.A.	54.30
40-70	3405.12	N.A.	43.30
60-80	1099.21	N.A.	14.00
70-80	339.22	N.A.	4.30
80-90	72.08	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.17	N.A.	0.00
110-180	0.17	N.A.	0.00
0-180	7870.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.21
10-20	907.83
20-30	1318.11
30-40	1504.6
40-50	1450.82
50-60	1194.31
60-70	759.99
70-80	339.22
80-90	72.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.05
160-170	0.08
170-180	0.04

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	141	141	141	141	137	137	137	137	131	131	131	126	126	126	121	121	121	118
1	130	125	120	116	127	122	118	114	117	114	111	113	110	107	108	106	104	102
2	119	110	103	97	116	108	101	95	104	98	93	100	95	91	97	93	89	87
3	109	98	89	82	106	96	88	81	92	85	80	89	83	78	86	81	77	74
4	101	87	78	70	98	86	77	70	83	75	69	80	73	68	78	72	67	64
5	93	78	68	61	90	77	68	61	75	66	60	72	65	59	70	64	59	56
6	86	71	61	54	84	70	60	53	68	59	53	66	58	53	64	57	52	50
7	80	65	55	48	78	64	54	48	62	53	47	60	53	47	59	52	47	44
8	75	59	50	43	73	58	49	43	57	48	43	55	48	42	54	47	42	40
9	70	54	45	39	68	54	45	39	52	44	39	51	44	38	50	43	38	36
10	66	50	41	35	64	50	41	35	49	41	35	48	40	35	47	40	35	33

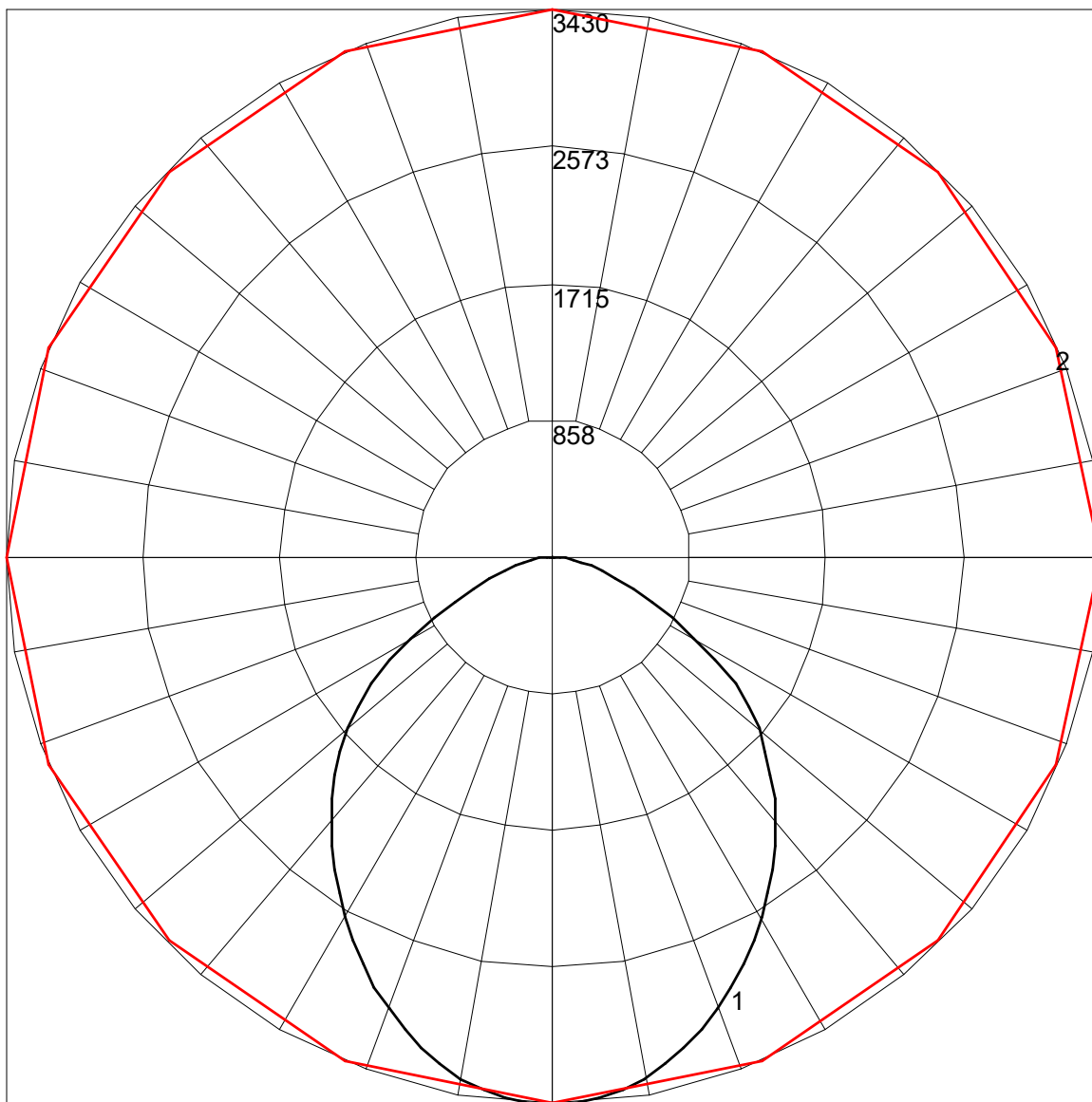
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.6	19.2	18.0	19.5	19.8	18.2	19.7	18.5	20.0	20.3
	3H	19.0	20.4	19.3	20.7	21.0	19.0	20.4	19.4	20.7	21.1
	4H	19.4	20.7	19.8	21.1	21.4	19.2	20.5	19.6	20.9	21.3
	6H	19.7	20.9	20.1	21.3	21.7	19.4	20.6	19.8	20.9	21.3
	8H	19.8	20.9	20.2	21.3	21.7	19.4	20.5	19.8	20.9	21.3
	12H	19.8	20.9	20.2	21.3	21.7	19.4	20.5	19.8	20.9	21.3
4H	2H	18.2	19.5	18.6	19.9	20.2	18.7	20.0	19.1	20.3	20.7
	3H	19.8	20.8	20.2	21.2	21.6	19.7	20.8	20.1	21.2	21.6
	4H	20.3	21.3	20.8	21.7	22.2	20.0	21.0	20.4	21.4	21.8
	6H	20.7	21.6	21.2	22.0	22.5	20.2	21.0	20.6	21.5	21.9
	8H	20.8	21.6	21.3	22.1	22.5	20.2	21.0	20.7	21.5	21.9
	12H	20.9	21.6	21.4	22.1	22.5	20.2	21.0	20.7	21.4	21.9
8H	4H	20.5	21.3	20.9	21.7	22.2	20.2	21.0	20.6	21.4	21.9
	6H	20.9	21.6	21.4	22.1	22.6	20.4	21.1	20.9	21.6	22.0
	8H	21.1	21.7	21.6	22.2	22.7	20.5	21.1	21.0	21.6	22.1
	12H	21.2	21.7	21.7	22.2	22.8	20.5	21.1	21.1	21.6	22.1
12H	4H	20.5	21.2	21.0	21.7	22.1	20.2	20.9	20.7	21.4	21.8
	6H	21.0	21.5	21.5	22.0	22.6	20.5	21.0	21.0	21.5	22.0
	8H	21.1	21.7	21.6	22.1	22.7	20.5	21.1	21.1	21.6	22.1

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 3430.399 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)